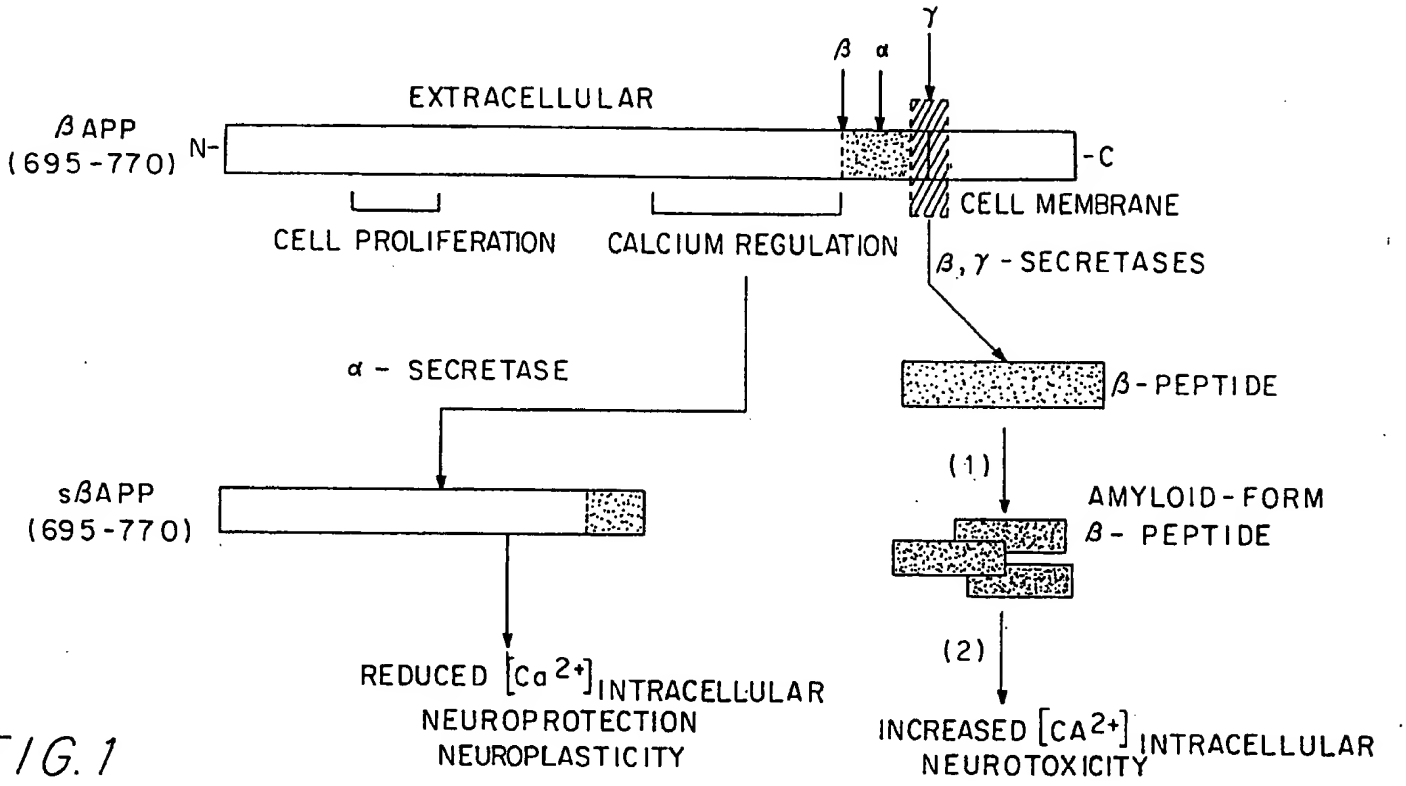
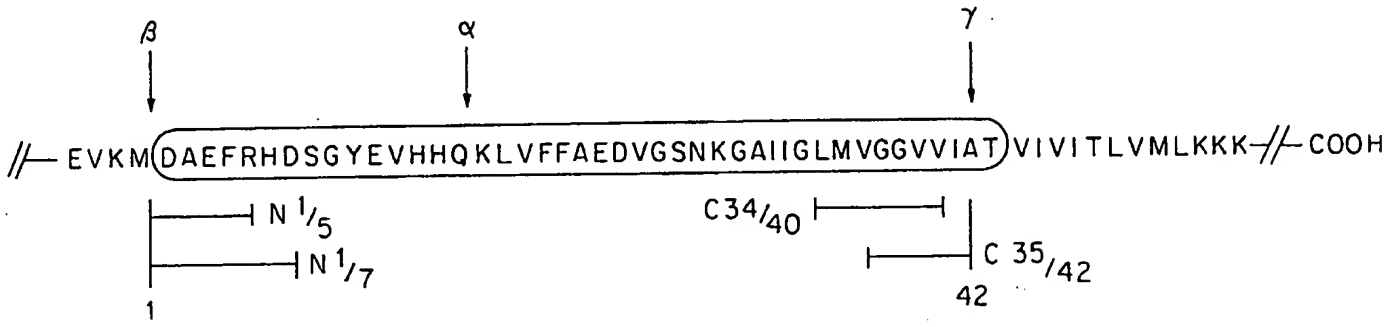

β
α
γ
EXTRACELLULAR
βAPP
(695-770)
N-
-C
CELL MEMBRANE
CELL PROLIFERATION
CALCIUM REGULATION
β, γ - SECRETASES
α - SECRETASE
β-PEPTIDE
(1)
sβAPP
(695-770)
AMYLOID-FORM
β- PEPTIDE
(2)
REDUCED [Ca 2+] INTRACELLULAR
NEUROPROTECTION
NEUROPLASTICITY
INCREASED [CA2+] INTRACELLULAR
NEUROTOXICITY

FIG. 1

FIG. 2


β
α
γ
EVKM
DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIAT
VIVITLVMLKKK
COOH
N 1/5
N 1/7
1
C34/40
C 35/42
42

ANTIBODY

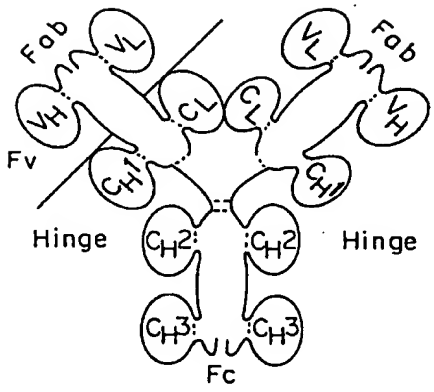


FIG. 3A

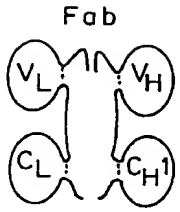


FIG. 3B

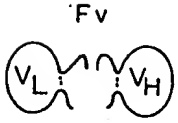
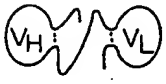


FIG. 3C

SINGLE CHAIN Fv (ScFv)



$H_2N - V_H - LINKER - V_L - COOH$

FIG. 3D

FIG. 4

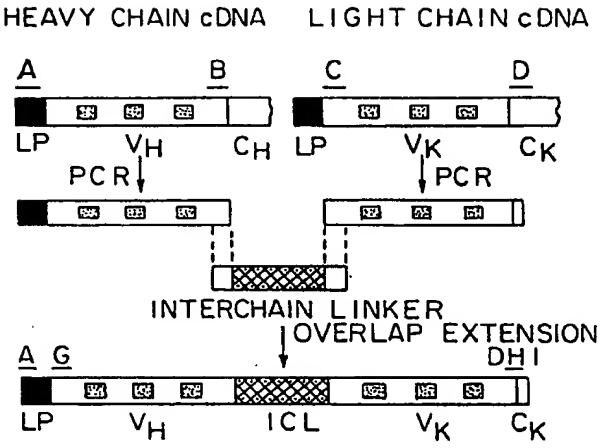
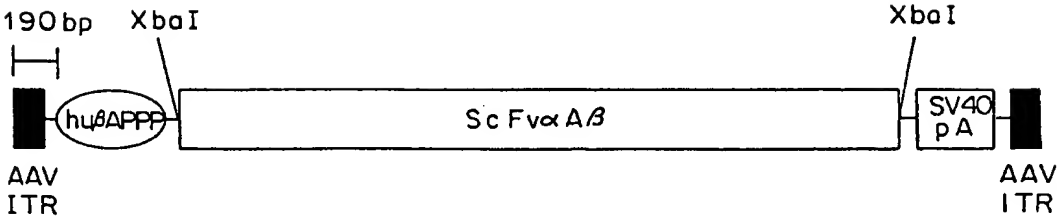

HEAVY CHAIN cDNA
LIGHT CHAIN cDNA
A
B
C
D
LP
V_H
C_H
LP
V_K
C_K
PCR
PCR
INTERCHAIN LINKER
OVERLAP EXTENSION
A G
DHI
LP
V_H
ICL
V_K
C_K

FIG. 5


190bp
XbaI
XbaI
huβAPPP
ScFvαAβ
SV40 pA
AAV ITR
AAV ITR